

**ENZYME ELECTRODE AND ITS MANUFACTURE**

**Patent number:** JP55010583  
**Publication date:** 1980-01-25  
**Inventor:** NANKAI SHIROU; NAKAMURA KENICHI; IIJIMA TAKASHI  
**Applicant:** MATSUSHITA ELECTRIC IND CO LTD  
**Classification:**  
**- international:** *H01M8/16; C12M1/34; C12Q1/00; G01N27/30; G01N27/327; G01N27/40; H01M8/16; C12M1/34; C12Q1/00; G01N27/30; G01N27/327; G01N27/40; (IPC1-7): C12Q1/00; G01N27/30; G01N27/40*  
**- european:**  
**Application number:** JP19780084481 19780710  
**Priority number(s):** JP19780084481 19780710

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**Abstract of JP55010583**

**PURPOSE:**To secure a quick and simple measurement of the substrate density as well as to realize the continuous and repetitive use of the enzyme electrode by securing the specific 3-lamination structure and thus giving the electrochemical activity to the substrate which suffers the peculiar catalyst function of the enzyme. **CONSTITUTION:**The electron conducting material such as the graphite powder is mixed well with the insoluble redox compound such as bromanil. Then a small amount of such mixture is unified with the electron conducting material through, for example, the press formation. In the moldings thus composed of 1st layer 1 made of the electron conducting material and 2nd layer 2 made of the electron conducting material and the insoluble redox compound, the oxidoreductase like glucose oxidase is fixed on layer 2 via glutaric aldehyde, and then 3rd layer 3 containing enzyme is formed. In such way, the enzyme electrode can be made with the minimum necessary amount of enzyme and the insoluble redox compound.

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